

CLAIMS LISTING

1. (original) A method for a user of a measurement process to cause a variation in the measurement process, the measurement process comprising a sequence of operations controlled by a computer program containing a variation point at which control is passed to a variation function, said method comprising:

determining the variation to the measurement process;

providing a process modification software module comprising a user-defined function for causing the variation; and

associating the user-defined function with the variation function,

wherein control is passed to the user-defined function when the variation point in the computer program is reached.

2. (original) A method as in claim 1, wherein the process modification software module further comprises an interface servicing element that services an interface realized by the measurement process.

3. (original) A method as in claim 2, wherein said interface operates in accordance with a predetermined protocol.

4. (original) A method as in claim 3, wherein said predetermined protocol is specified at a binary level.

5. (original) A method as in claim 3, wherein said predetermined protocol is a Simple Object Access Protocol.

6. (original) A method as in claim 3, wherein said predetermined protocol is a Common Object Request Broker Architecture.

7. (original) A method as in claim 2, wherein said interface is determined by the user and is passed into said measurement process.

8. (previously presented) A method as in claim 1, wherein said process modification software module is one of a Component Object Module, an ENTERPRISE JAVA BEAN™ computer program, and a Dynamically Linked Library.

9. (original) A method as in claim 1, wherein the measurement process and the process modification software module are executed in a shared computer memory space.

10. (original) A method as in claim 1, wherein said measurement process is executed in a first memory space of a first computer and said process modification software module is executed in a second memory space which is distinct from the first memory space.

11. (original) A method as in claim 10, wherein the second memory space is located within a second computer.

12. (original) A method as in claim 11, wherein the second computer is remote from the first computer.

13. (original) A method as in claim 12, wherein the first computer and the second computer communicate via a network.

14. (original) A method as in claim 1, wherein said variation comprises modification of data.

15. (original) A method as in claim 1, wherein said variation comprises modification of one or more numerical parameters of the measurement process.

16. (original) A method as in claim 1, wherein said variation comprises modification of one or more control parameters of the measurement process, wherein one or more alternatives within the measurement process may be selected.

17. (original) A method as in claim 1, wherein said measurement process is applied to a device under test and said variation comprises alteration of a configuration of the device under test.

18. (original) A method as in claim 1, wherein said measurement process is applied to a device under test and said variation comprises causing input signals to be supplied to the device under test.

19. (original) A method as in claim 1, wherein said computer program contains a plurality of variation points and said process modification software module comprises a plurality of user-defined functions and wherein each of the plurality of variation points is associated with one of the plurality of user-defined functions.

20. (original) A method as in claim 1, wherein said computer program contains a plurality of variation points and a plurality of process modification software modules are provided, each of the plurality of process modification software modules comprising at least one user-defined function and wherein each of the plurality of variation points is associated with one of the at least one user-defined functions.

21. (previously presented) A computer readable medium containing instructions which, when executed on a computer, control a measurement process, said instructions comprising:

- a first plurality of instructions operable to initiate the measurement process; and

- a second plurality of instructions operable to control the measurement process, the second plurality of instructions including a function call instruction operable to pass control to a user-defined variation function;

wherein the user-defined variation function operates to modify the measurement process and return control to the measurement process.

22. (original) A computer readable medium as in claim 21, wherein the function call instruction is operable to pass parameters to the variation function.

23. (original) A computer readable medium as in claim 22, wherein the parameters comprise measurement data.

24. (original) A computer readable medium as in claim 21, wherein the function call instruction is operable to receive parameters from the variation function.

25. (previously presented) A computer readable medium as in claim 24, wherein the parameters comprise control parameters, operable to select between a plurality of alternative instructions controlling the measurement process.

26. (original) A computer readable medium as in claim 24, wherein the parameters comprise numerical parameters, operable to modify the measurement process.

27. (original) A computer readable medium as in claim 24, wherein said measurement process is applied to a device under test and wherein the

parameters comprise control codes, operable to cause signals to be supplied to the device under test.

28. (original) A computer readable medium as in claim 24, wherein said measurement process is applied to a device under test and wherein the parameters comprise control codes, operable to alter the configuration of the device under test.

29. (original) A computer readable medium as in claim 21, wherein the function call instruction invokes an interface.

30. (original) A computer readable medium as in claim 21, wherein the variation function is provided by a user of the measurement process, thereby allowing the user to modify the measurement process.

31. (original) A computer readable medium as in claim 30, wherein the variation function provided by the user of the measurement is accessed via an interface.

32. (original) A computer readable medium as in claim 31, wherein said interface operates according to a predetermined protocol.

33. (original) A computer readable medium as in claim 32, wherein said predetermined protocol is specified at a binary level.

34. (original) A computer readable medium as in claim 33, wherein said predetermined protocol is a Simple Object Access Protocol.
35. (original) A computer readable medium as in claim 33, wherein said predetermined protocol is a Common Object Request Broker Architecture.
36. (previously presented) A computer readable medium as in claim 31, wherein said interface is determined by the user and wherein said instructions further comprise instructions to identify the interface.
37. (previously presented) A method as in claim 21, wherein said variation function is implement as one of a Component Object Module, an ENTERPRISE JAVA BEAN™ computer program, and a Dynamically Linked Library.
38. (previously presented) A computer readable medium as in claim 21, wherein the second plurality of instructions includes a plurality of function call instructions passing control to a plurality of variation functions.
39. (previously presented) A computer readable medium as in claim 21, wherein said function call instruction is placed within said second plurality of instructions at a variation point where a designer of the instruction anticipates a user may want to interact with or modify the measurement process.
40. (previously presented) A measurement system comprising:

a computer readable medium in accordance with claim 21; and

a physical interface operable to supply signals to a device under test
and receive signals from a device under test.